

**ABSTRACT****RADIO COMMUNICATION SYSTEM**

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A method of operating a radio communication system uses a random access channel to enable a secondary station to transmit a message to a primary station. The secondary station transmits a preamble (102) to the primary station. After successful receipt of the preamble the primary station transmits a control channel (502) including power control information to instruct the  
10 secondary station to adjust the output power of its transmitter.

This method ensures that the secondary station transmits at a sufficient power for the message (104) to be received successfully by the primary station, while  
15 minimising interference generated by the transmission.

(Figure 6)